RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/470,494A

DATE: 05/23/2001
TIME: 12:36:29

Input Set : A:\I2777007.txt
Output Set: C:\CRF3\05232001\I470494A.raw

```
 4 <110> APPLICANT: Newell, Martha Karen
 5        Wagner, David H.
 6        Newell, Evan
 8 <120> TITLE OF INVENTION: Use of CD40 Engagement to Alter T Cell
 9        Receptor Usage
11 <130> FILE REFERENCE: I0277/7007/HCL/KA
13 <140> CURRENT APPLICATION NUMBER: US/09/470,494A
14 <141> CURRENT FILING DATE: 1999-12-22
16 <150> PRIOR APPLICATION NUMBER: U.S. 60/114,106
17 <151> PRIOR FILING DATE: 1998-12-29
19 <160> NUMBER OF SEQ ID NOS: 2
21 <170> SOFTWARE: FastSEQ for Windows Version 3.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 1816
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo Sapiens
28 <400> SEQUENCE: 1
29  cttctctgcc agaagatacc atttcaactt taacacagca tgatcgaaac atacaaccaa     60
30  acttctcccc gatctgcggc cactggactg cccatcagca tgaaaatttt tatgtattta    120
31  cttactgttt ttcttatcac ccagatgatt gggtcagcac ttttttgctgt gtatcttcat   180
32  agaaggttgg acaagataga agatgaaagg aatcttcatg aagattttgt attcatgaaa    240
33  acgatacaga gatgcaacac aggagaaaga tccttatcct tactgaactg tgaggagatt    300
34  aaaagccagt ttgaaggctt tgtgaaggat ataatgttaa acaaagagga gacgaagaaa    360
35  gaaaacagct ttgaaatgca aaaaggtgat cagaatcctc aaattgcggc acatgtcata    420
36  agtgaggcca gcagtaaaac aacatctgtg ttacagtggg ctgaaaaagg atactacacc    480
37  atgagcaaca acttggtaac cctggaaaat gggaaacagc tgaccgttaa aagacaagga    540
38  ctctattata tctatgccca agtcaccttc tgttccaatc gggagcttc gagtcaagct     600
39  ccatttatag ccagcctctg cctaaagtcc cccggtagat tcgagagaat cttactcaga    660
40  gctgcaaata cccacagttc cgccaaacct tgcgggcaac aatccattca cttgggagga    720
41  gtatttgaat tgcaaccagg tgcttcggtg tttgtcaatg tgactgatcc aagccaagtg    780
42  agccatggca ctggcttcac gtcctttggc ttactcaaac tctgaacagt gtcaccttgc    840
43  aggctgtggt ggagctgacg ctgggagtct tcataataca gcacagcggt taagcccacc    900
44  ccctgttaac tgcctatttta taaccctagg atcctcctta tggagaacta tttattatac   960
45  actccaaggc atgtagaact gtaataagtg aattacaggt cacatgaaac caaaacgggc   1020
46  cctgctccat aagagcttat atatctgaag cagcaacccc actgatgcag acatccagag   1080
47  agtcctatga aaagacaagg ccattatgca caggttgaat tctgagtaaa cagcagataa   1140
48  cttgccaagt tcagtttttgt ttctttgcgt gcagtgtctt tccatggata atgcatttga   1200
49  tttatcagtg aagatgcaga agggaaatgg ggagcctcag ctcacattca gttatggttg   1260
50  actctgggtt cctatggcct tgttggaggg ggccaggctc tagaacgtct aacacagtgg   1320
51  agaaccgaaa cccccccccc cccccccgcc accctctcgg acagttattc attctctttc   1380
52  aatctctctc tctccatctc tctctttcag tctctctctc tcaacctctt tcttccaatc   1440
53  tctctttctc aatctctctg tttccctttg tcagtctctt ccctccccca gtctctcttc   1500
54  tcaatccccc tttctaacac acacacacac acacacacac acacacacac acacacacac   1560
55  acacacacac acacacacac agagtcaggc cgttgctagt cagttctctt ctttccaccc   1620
56  tgtccctatc tctaccacta tagatgaggg tgaggagtag ggagtgcagc cctgagcctg   1680
57  cccactcctc attacgaaat gactgtattt aaaggaaatc tattgtatct acctgcagtc   1740
58  tccattgttt ccagagtgaa cttgtaatta tcttgttatt tattttttga ataataaaga   1800
```

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```
59  cctcttaaca ttaaaa                                    1816
61 <210> SEQ ID NO: 2
62 <211> LENGTH: 261
63 <212> TYPE: PRT
64 <213> ORGANISM: Homo Sapiens
66 <400> SEQUENCE: 2
67  Met Ile Glu Thr Tyr Asn Gln Thr Ser Pro Arg Ser Ala Ala Thr Gly
68   1               5                  10                  15
69  Leu Pro Ile Ser Met Lys Ile Phe Met Tyr Leu Leu Thr Val Phe Leu
70              20                  25                  30
71  Ile Thr Gln Met Ile Gly Ser Ala Leu Phe Ala Val Tyr Leu His Arg
72          35                  40                  45
73  Arg Leu Asp Lys Ile Glu Asp Glu Arg Asn Leu His Glu Asp Phe Val
74       50                  55                  60
75  Phe Met Lys Thr Ile Gln Arg Cys Asn Thr Gly Glu Arg Ser Leu Ser
76   65                  70                  75                  80
77  Leu Leu Asn Cys Glu Glu Ile Lys Ser Gln Phe Glu Gly Phe Val Lys
78              85                  90                  95
79  Asp Ile Met Leu Asn Lys Glu Glu Thr Lys Lys Glu Asn Ser Phe Glu
80              100                 105                 110
81  Met Gln Lys Gly Asp Gln Asn Pro Gln Ile Ala Ala His Val Ile Ser
82          115                 120                 125
83  Glu Ala Ser Ser Lys Thr Thr Ser Val Leu Gln Trp Ala Glu Lys Gly
84       130                 135                 140
85  Tyr Tyr Thr Met Ser Asn Asn Leu Val Thr Leu Glu Asn Gly Lys Gln
86   145                 150                 155                 160
87  Leu Thr Val Lys Arg Gln Gly Leu Tyr Tyr Ile Tyr Ala Gln Val Thr
88                  165                 170                 175
89  Phe Cys Ser Asn Arg Glu Ala Ser Ser Gln Ala Pro Phe Ile Ala Ser
90              180                 185                 190
91  Leu Cys Leu Lys Ser Pro Gly Arg Phe Glu Arg Ile Leu Leu Arg Ala
92              195                 200                 205
93  Ala Asn Thr His Ser Ser Ala Lys Pro Cys Gly Gln Gln Ser Ile His
94       210                 215                 220
95  Leu Gly Gly Val Phe Glu Leu Gln Pro Gly Ala Ser Val Phe Val Asn
96   225                 230                 235                 240
97  Val Thr Asp Pro Ser Gln Val Ser His Gly Thr Gly Phe Thr Ser Phe
98                  245                 250                 255
99  Gly Leu Leu Lys Leu
100              260
```

VERIFICATION SUMMARY   DATE: 05/23/2001
PATENT APPLICATION: US/09/470,494A   TIME: 12:36:30

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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number